

## SECTION 01310 — CONSTRUCTION SCHEDULES

## PART 1 GENERAL

## 1.01 SECTION INCLUDES

- A. Project schedule
- B. Progress payment schedule
- C. Method of operations
- D. Initial schedule submittal and updates
- E. Schedule revisions
- F. Distribution
- G. Holiday schedule

## 1.02 PROJECT SCHEDULE

- A. Prepare and submit a cost/resource loaded project schedule, utilizing the Critical Path Method (CPM). Submit the project schedule to the Contracting Officer (CO) for review and acceptance as noted in subpart 1.05 "Initial Schedule Submittal and Updates." The schedule shall show in detail the planned sequence of all work items, including but not limited to such items as; the fabrication phase and delivery of preengineered structures, mechanical or electrical equipment, critical submittals and long-lead items, when the Contractor requires Government-furnished equipment/material at the jobsite (if any), planned mechanical or electrical tie-ins to existing utility systems, and shall clearly indicate the critical path. The progress schedule shall be built using Microsoft "Project" for Windows.
- B. Format:
  - B.1 Sequence of Listings: List by chronological order of the start of each item of work.
  - B.2 Sheet Size: Multiples of 8-1/2 x 11 inches or as requested by the CO.
  - B.3 Quantity: Submit one electronic copy or the number of hard copies which the Contractor requires to be returned, plus three hard copies which will be retained by the CO.

- C. Content:
- C.1 Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction. Show any activity with a duration of greater than or equal to five working days. Define activities in sufficient detail and limited duration to allow for ease of tracking.
  - C.2 Identify work of separate stages or phases and other logically grouped activities.
  - C.3 Clearly identify critical portions of the schedule. The submitted schedule shall take into consideration all milestone dates so identified by the Government.
  - C.4 Show accumulated percentage of completion of each item, and total percentage of work completed, as of the first day of each month. Also, provide actual start and finish dates for each activity.
  - C.5 Include critical submittals and identify procurement of long-lead items in the schedule. Provide a separate schedule of submittal dates for shop drawings, product data, and samples, including Government-furnished equipment/materials, and dates reviewed submittals will be required from the CO. (Reference section 01300 "Submittals.") Indicate decision dates for selection of finishes.
  - C.6 Indicate delivery dates for all pieces of equipment.
  - C.7 Take into consideration time needed for inspection of individual portions of the work.
  - C.8 Cost Loading: Assign a cost of work for every activity as required by the cost breakdown/schedule of values. Cost shall include allocation for labor, materials, equipment, overhead, bonds, and profit.
  - C.9 Coordinate content and cost loading criteria with cost breakdown/schedule of values for both the project schedule and the progress payment schedule
- 1.03 PROGRESS PAYMENT SCHEDULE
- A. From the completed project schedule, develop and submit a progress payment schedule in the form of a Gantt chart similar to the sample provided in appendix C.
  - B. Identify each second level summary item by work breakdown structures (WBS) per the approved cost breakdown schedule of values.
- 1.04 METHOD OF OPERATIONS
- A. Establish method of operation with the Government concurrent with the submittal of the complete project schedule. Submit one electronic and three hard copies of the work statement.

- B. The work statement shall include:
  - B.1 Description of work method for each on-site work element of five working days or more.
  - B.2 Detailed narrative statements of assumptions and conditions which provide supportive information for conclusions represented in the network schedules. Indicate proposed areas for work and for storage of specific materials, proposed use of equipment, and assumptions and methods which determine durations and sequences represented in specific areas of the network analysis and schedule.
  - B.3 Manpower-loading for each on-site work element of five working days or more.

#### 1.05 INITIAL SCHEDULE SUBMITTAL AND UPDATES

- A. Initial Submittals: Submit the preliminary project schedule and progress payment schedule within 30 calendar days of Notice to Proceed for review, comment, and coordination with work of separate subcontracts. Incorporate review comments recommended by the Government.
- B. Project Schedule Updates:
  - B.1 Prepare a three-week look-ahead project schedule for use and distribution during the weekly construction progress meetings. This schedule shall clearly define all current and projected work for that three-week time frame, including interfaces (i.e., staging, schedule, interferences and like items) with Government special equipment installation and other ongoing construction packages. Identify required inspections. Be prepared to discuss this schedule in detail at the weekly construction progress meeting.
  - B.2 Update the project schedule monthly and submit it to the CO for review.
  - B.3 Government acceptance of the Contractor's project schedule does not relieve the Contractor of responsibility for the accuracy or feasibility of the schedule or for its ability to meet the contract completion date. Such acceptance does not warrant, acknowledge, or admit the reasonableness of durations or logic of the Contractor's schedule.
- C. Progress Payment Schedule Updates: Submit updated progress schedules with each application for payment. Approval of Contractor monthly progress payments is contingent upon the submittal of a current, accurate, and logical schedule acceptable to the CO.

**1.06 SCHEDULE REVISIONS**

- A. Indicate progress of each activity to date of submittal, and projected completion date of each activity.
- B. Identify activities modified since previous submittal, major changes in scope, and other identifiable changes. Clearly identify proposed change orders which affect the schedule. Do not make any changes to scheduled milestone dates without prior approval by the CO. Extensions of time can only be made by change orders approved by the CO.
- C. Provide narrative report to define problem areas, anticipated delays, and impact on schedule. Report corrective action taken, or proposed (including recovery schedules), and its effect including the effect of changes on schedules of separate prime contracts. Immediately notify the CO of any potential sequencing or phasing conflicts with separate prime contracts which may arise.
- D. The Government reserve the right to modify or change the sequencing of activities or utilize float time as needed to benefit the overall project as long as said changes do not affect the overall contract completion or contract amount.

**1.07 DISTRIBUTION**

- A. Distribute copies of reviewed schedules to the Contractor's project site file, subcontractors, suppliers, and other concerned parties.
- B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

**1.08 HOLIDAY SCHEDULE**

Construction work days are to be scheduled using the list of LLNL holidays attached to the contract. Make arrangements with the Contracting Officer's Representative (COR) for access to the site if it is required on those days.

**PART 2 PRODUCTS**

Not used

**PART 3 EXECUTION**

Not used

END OF SECTION